

Data Path : Z:\HPCHEM1\BNA M\DATA\BM092915\  
 Data File : BM002784.D  
 Acq On : 30 Sep 2015 14:29  
 Operator : UM/IZ  
 Sample : G3838-17  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 E5MX3

Manual Integrations  
 APPROVED

MMDadoda  
 9/30/2015 4:42:44 PM

Quant Time: Sep 30 15:31:45 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM092915.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Sep 30 06:48:30 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.70  | 152  | 106913   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.56 | 136  | 435259   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 15.30 | 164  | 206908   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 18.01 | 188  | 401430   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 22.10 | 240  | 414096   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 24.69 | 264  | 426550   | 20.00 | ng/ul | 0.01     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.77  | 96  | 10056  | 4.37  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.82  | 99  | 185119 | 22.85 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.99  | 67  | 112871 | 24.77 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 8.22  | 132 | 175957 | 23.34 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 9.40  | 113 | 152000 | 22.76 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.90  | 128 | 83530  | 25.17 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.63 | 143 | 85528  | 24.65 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 11.17 | 165 | 138302 | 22.59 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.69 | 131 | 156286 | 21.21 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 14.67 | 166 | 390598 | 25.09 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 15.00 | 160 | 520818 | 25.07 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 15.47 | 143 | 46595  | 16.86 | ng/ul | 0.01 |
| 58) Fluorene-d10               | 16.27 | 176 | 339977 | 24.25 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 16.39 | 200 | 11334  | 5.79  | ng/ul | 0.00 |
| 71) Anthracene-d10             | 18.11 | 188 | 481911 | 25.15 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 20.34 | 212 | 485639 | 25.13 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 24.52 | 264 | 551009 | 25.25 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |      |        | Ovalue |
|--------------------------------|-------|-----|--------|------|--------|--------|
| 28) Naphthalene                | 11.61 | 128 | 50708  | 2.28 | ng/ul  | 98     |
| 34) 2-Methylnaphthalene        | 13.17 | 142 | 77946  | 5.04 | ng/ul  | 97     |
| 35) 1-Methylnaphthalene        | 13.38 | 142 | 68508  | 4.56 | ng/ul  | 98     |
| 45) Dimethylphthalate          | 14.72 | 163 | 140834 | 8.90 | ng/ul  | 100    |
| 54) Dibenzofuran               | 15.69 | 168 | 37037  | 1.89 | ng/ul  | 94     |
| 70) Phenanthrene               | 18.05 | 178 | 122556 | 5.28 | ng/ul  | 97     |
| 77) Fluoranthene               | 20.01 | 202 | 79041  | 3.30 | ng/ul  | 100    |
| 80) Pyrene                     | 20.37 | 202 | 85665  | 3.26 | ng/ul  | 98     |
| 83) Benzo(a)anthracene         | 22.08 | 228 | 64114  | 2.60 | ng/ul# | 91     |
| 84) Bis(2-ethylhexyl)phthalate | 21.91 | 149 | 19392  | 1.09 | ng/ul# | 93     |
| 85) Chrysene                   | 22.13 | 228 | 72356  | 3.12 | ng/ul# | 90     |
| 88) Benzo(b)fluoranthene       | 23.89 | 252 | 83380  | 3.25 | ng/ul# | 88     |
| 91) Benzo(a)pyrene             | 24.57 | 252 | 63714  | 2.59 | ng/ul# | 89     |
| 92) Indeno(1,2,3-cd)pyrene     | 27.41 | 276 | 43622  | 1.52 | ng/ul  | 97     |
| 94) Benzo(g,h,i)perylene       | 28.26 | 276 | 49282  | 2.04 | ng/ul  | 91     |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

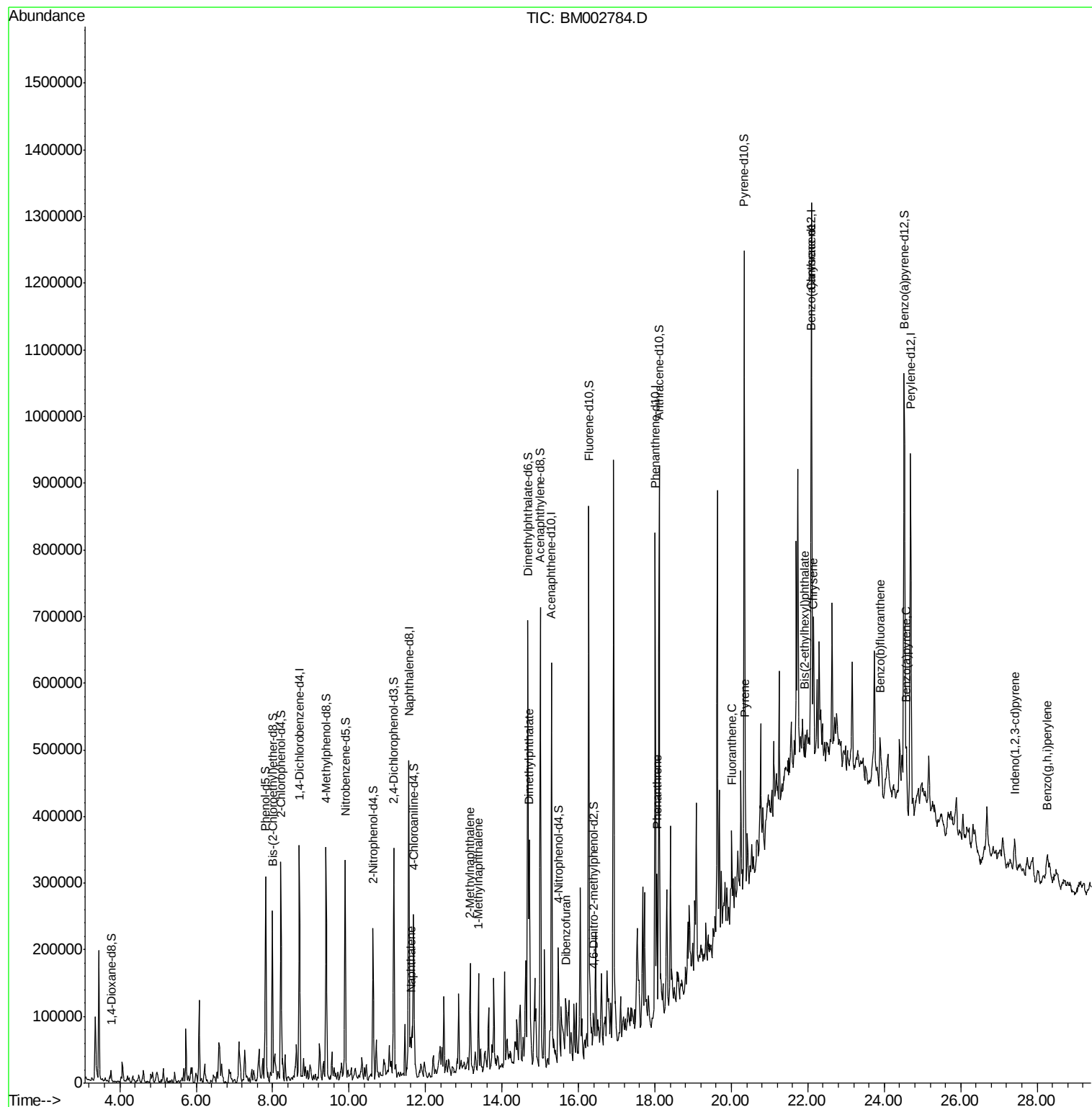
Data Path : Z:\HPCHEM1\BNA M\DATA\BM092915\  
Data File : BM002784.D  
Acq On : 30 Sep 2015 14:29  
Operator : UM/IZ  
Sample : G3838-17  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

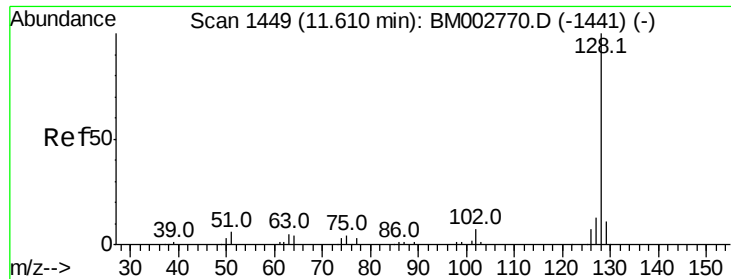
Instrument :  
BNA\_M  
ClientSampleId :  
E5MX3

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Quant Time: Sep 30 15:31:45 2015  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM092915.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Sep 30 06:48:30 2015  
Response via : Initial Calibration





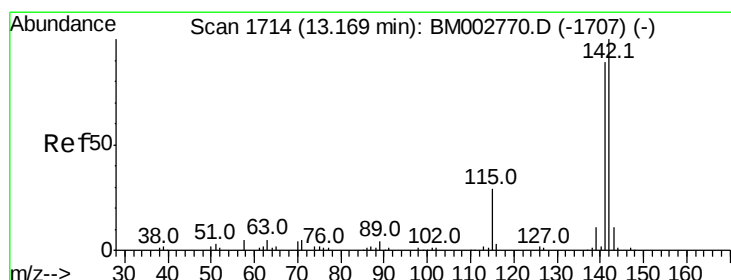
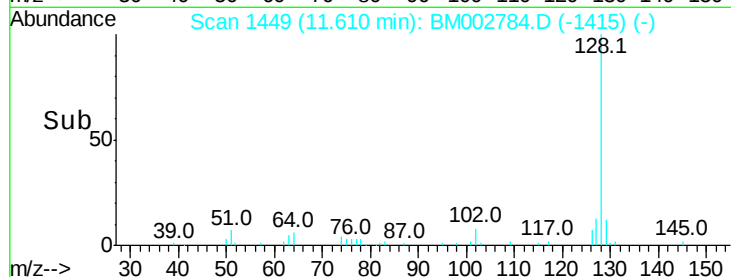
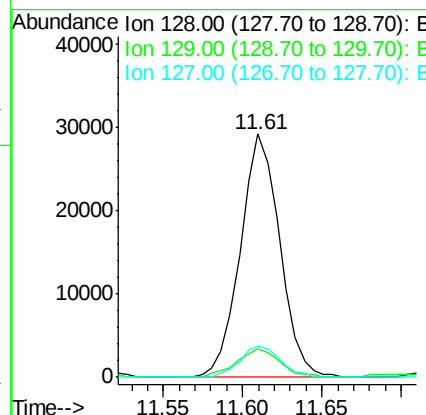
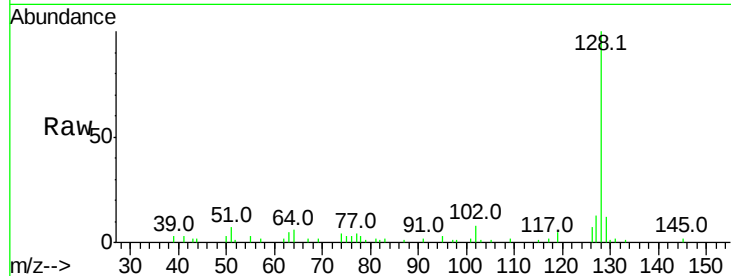
#28  
Naphthalene  
Concen: 2.28 ng/ul  
RT: 11.61 min Scan# 1449  
Delta R.T. -0.00 min  
Lab File: BM002784.D  
Acq: 30 Sep 2015 14:29

Instrument :  
BNA\_M  
ClientSampleId :  
E5MX3

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 128   | Resp: | 50708 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 11.7  | 8.7   | 13.1  |
| 127       | 13.0  | 9.9   | 14.9  |

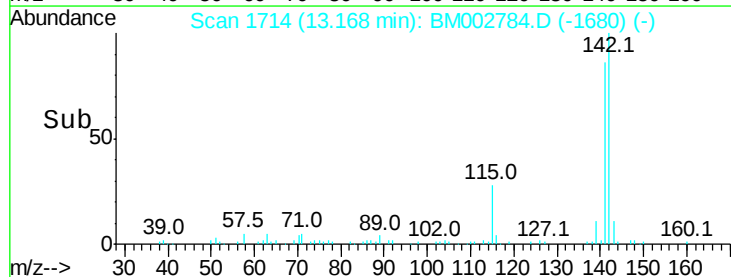
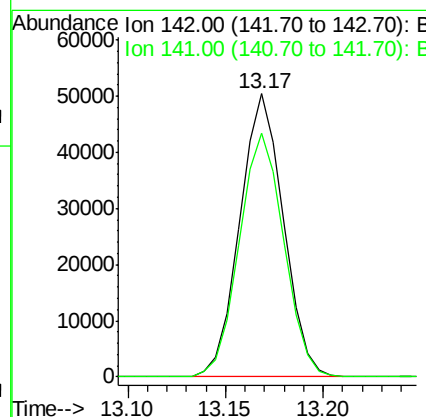
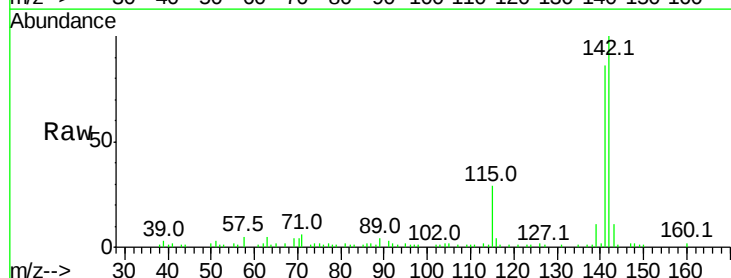
Manual Integrations  
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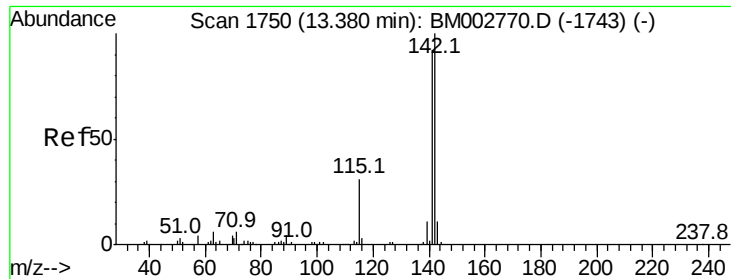
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#34  
2-Methylnaphthalene  
Concen: 5.04 ng/ul  
RT: 13.17 min Scan# 1714  
Delta R.T. -0.00 min  
Lab File: BM002784.D  
Acq: 30 Sep 2015 14:29

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 77946 |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 86.2  | 71.2  | 106.8 |





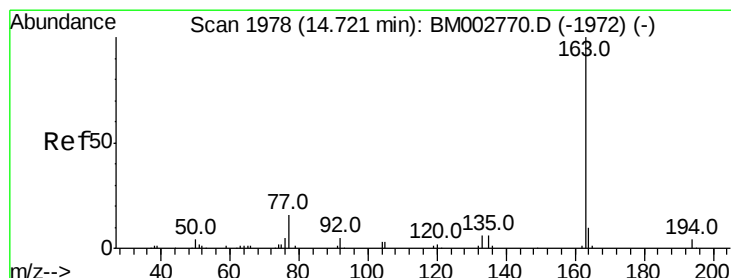
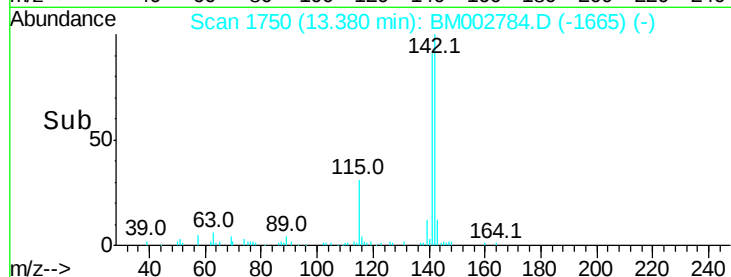
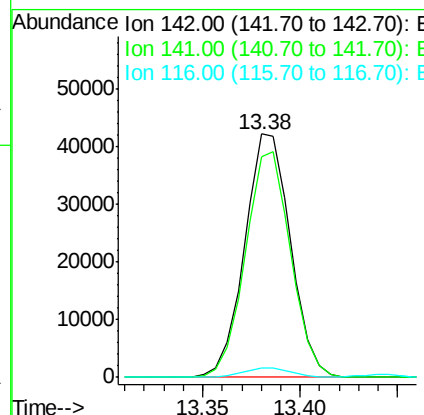
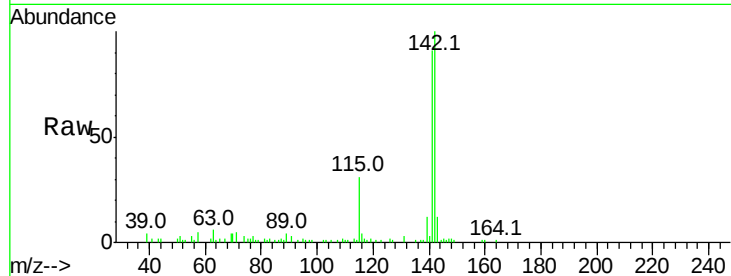
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1-Methylnaphthalene  
Concen: 4.56 ng/ul  
RT: 13.38 min Scan# 1750  
Delta R.T. -0.00 min  
Lab File: BM002784.D  
Acq: 30 Sep 2015 14:29

Instrument :  
BNA\_M  
ClientSampleId :  
E5MX3

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 142     | 100   | 68508 |       |       |
| 141     | 90.6  | 74.4  | 111.6 |       |
| 116     | 3.6   | 2.6   | 4.0   |       |

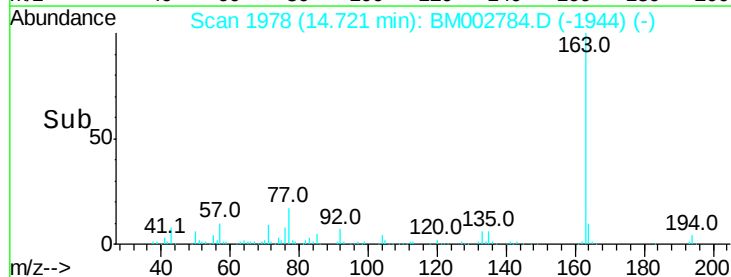
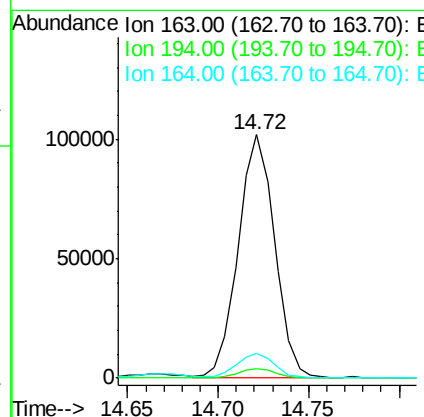
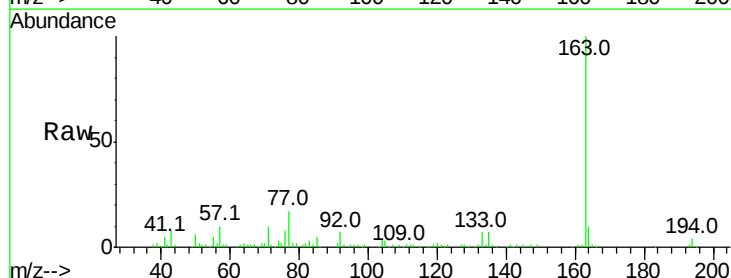
Manual Integrations  
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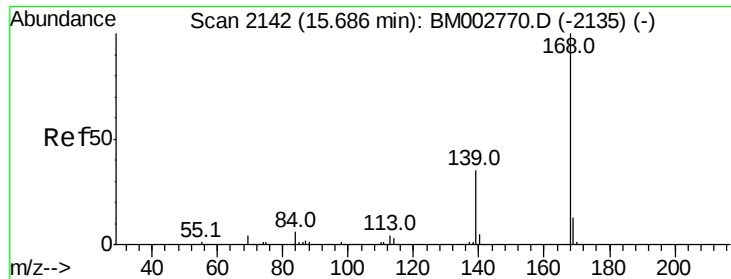
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#45  
Dimethylphthalate  
Concen: 8.90 ng/ul  
RT: 14.72 min Scan# 1978  
Delta R.T. -0.00 min  
Lab File: BM002784.D  
Acq: 30 Sep 2015 14:29

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 140834 |       |       |
| 194     | 3.9   | 3.2    | 4.8   |       |
| 164     | 9.9   | 8.1    | 12.1  |       |





#54

Dibenzenofuran

Concen: 1.89 ng/ul

RT: 15.69 min Scan# 2142

Delta R.T. -0.00 min

Lab File: BM002784.D

Acq: 30 Sep 2015 14:29

Instrument :

BNA\_M

ClientSampleId :

E5MX3

Tot Ion:168 Resp: 37037

Ion Ratio Lower Upper

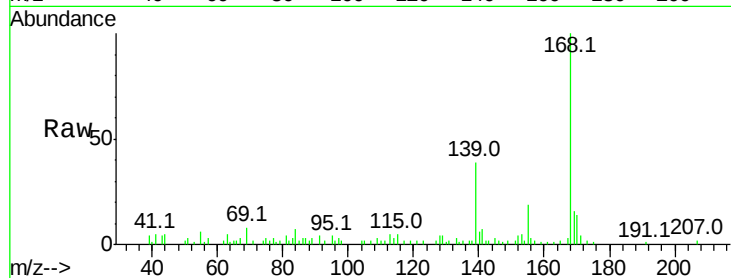
168 100

139 39.3 28.7 43.1

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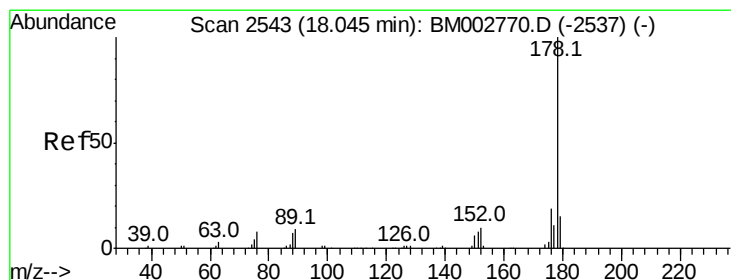
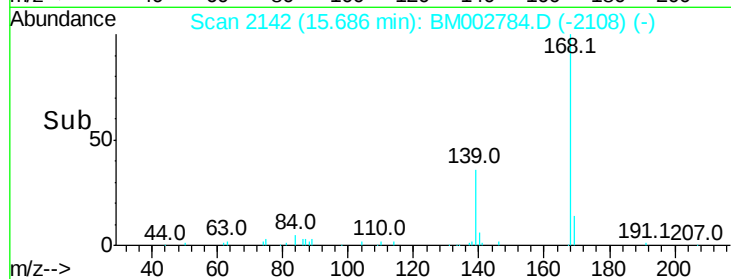
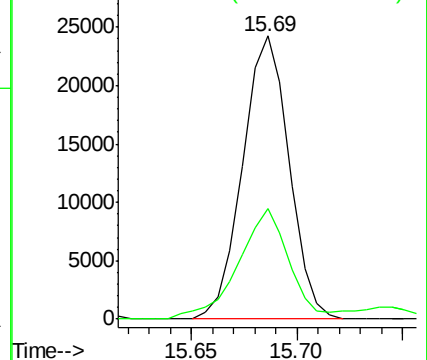
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Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E



#70

Phenanthrene

Concen: 5.28 ng/ul

RT: 18.05 min Scan# 2544

Delta R.T. 0.01 min

Lab File: BM002784.D

Acq: 30 Sep 2015 14:29

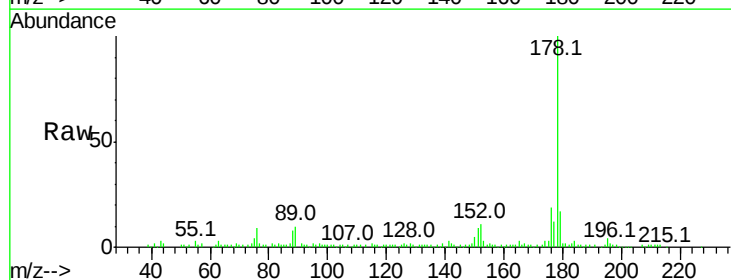
Tgt Ion:178 Resp: 122556

Ion Ratio Lower Upper

178 100

179 16.9 12.0 18.0

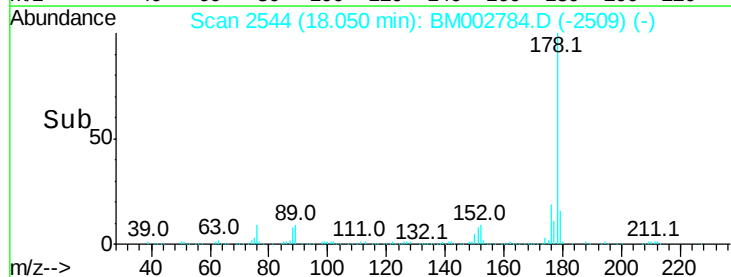
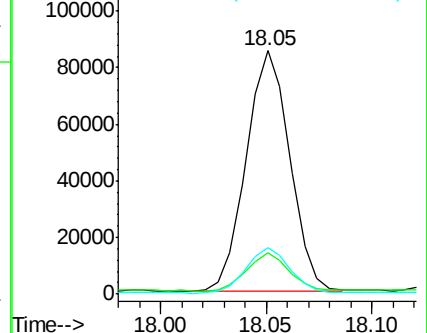
176 19.2 14.6 22.0

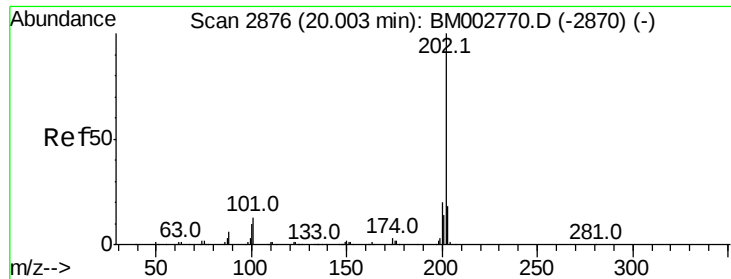


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#77

Fluoranthene

Concen: 3.30 ng/ul

RT: 20.01 min Scan# 2877

Delta R.T. 0.01 min

Lab File: BM002784.D

Acq: 30 Sep 2015 14:29

Instrument :

BNA\_M

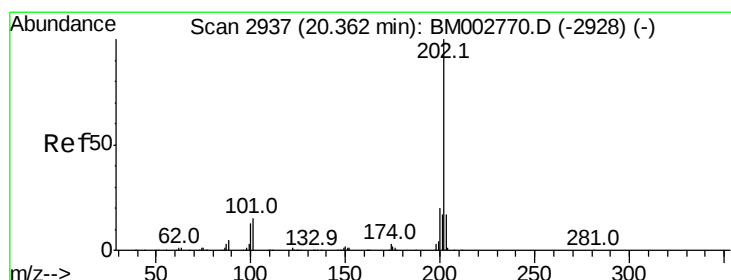
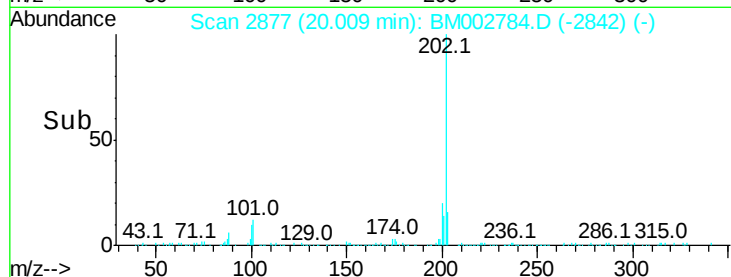
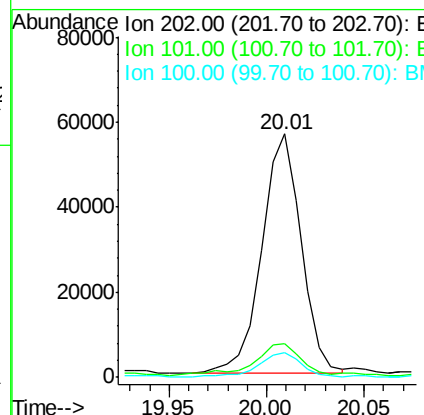
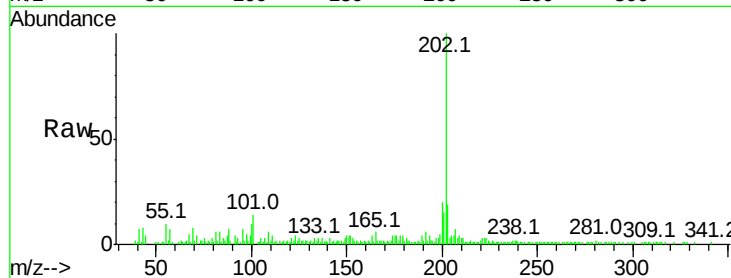
ClientSampleId :

E5MX3

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 79041 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 13.6  | 11.0  | 16.4  |
| 100       | 10.4  | 8.3   | 12.5  |

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#80

Pyrene

Concen: 3.26 ng/ul

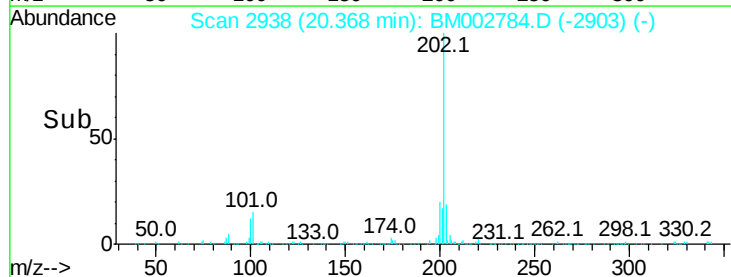
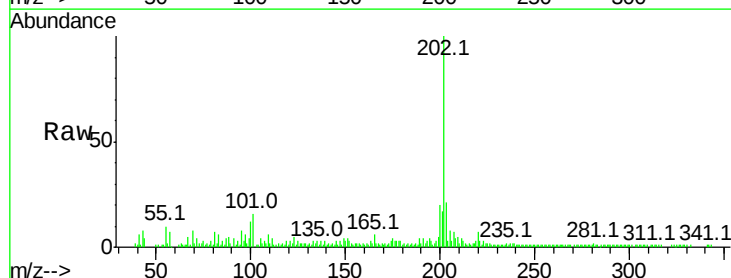
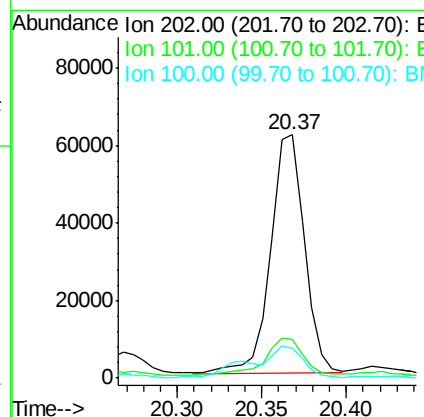
RT: 20.37 min Scan# 2938

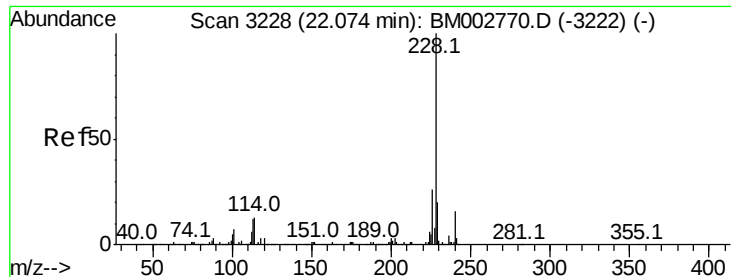
Delta R.T. 0.01 min

Lab File: BM002784.D

Acq: 30 Sep 2015 14:29

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 85665 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 15.7  | 12.1  | 18.1  |
| 100       | 12.0  | 10.2  | 15.4  |





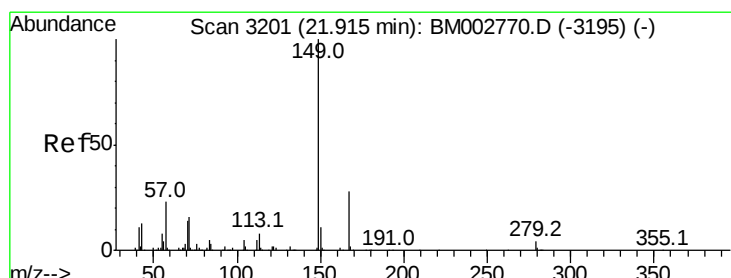
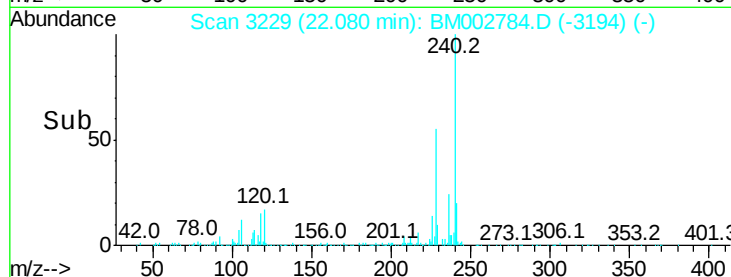
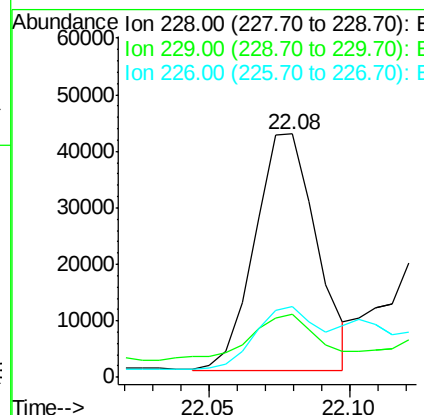
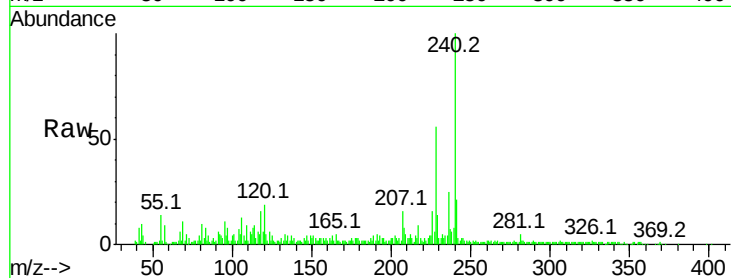
#83  
Benzo(a)anthracene  
Concen: 2.60 ng/ul  
RT: 22.08 min Scan# 3229  
Delta R.T. 0.01 min  
Lab File: BM002784.D  
Acq: 30 Sep 2015 14:29

Instrument :  
BNA\_M  
ClientSampled :  
E5MX3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 25.8  | 16.1  | 24.1# |
| 226     | 29.2  | 20.9  | 31.3  |

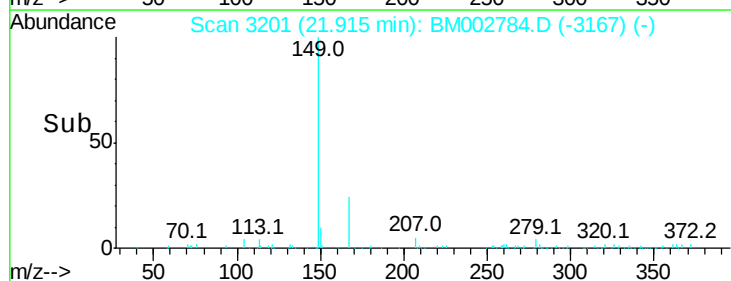
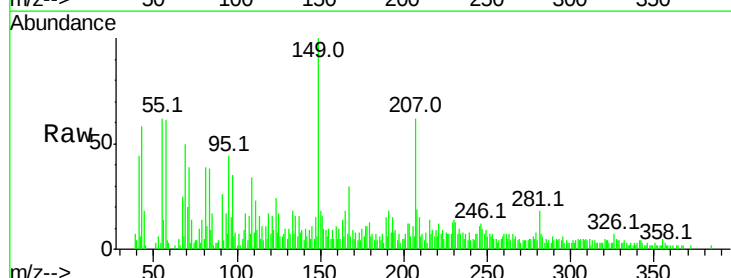
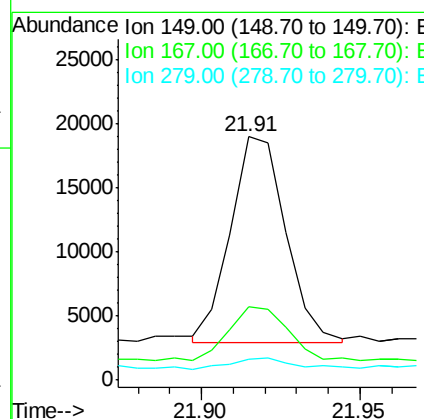
Manual Integrations  
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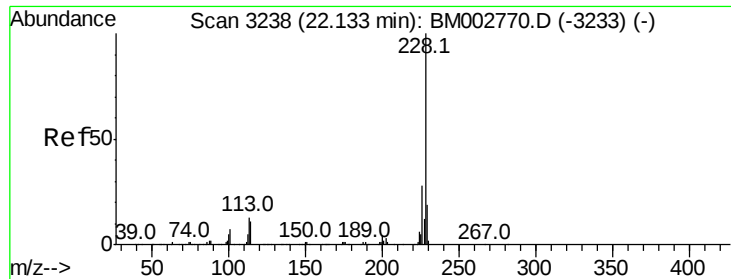
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9/30/2015 4:42:44 PM



#84  
Bis(2-ethylhexyl)phthalate  
Concen: 1.09 ng/ul  
RT: 21.91 min Scan# 3201  
Delta R.T. -0.00 min  
Lab File: BM002784.D  
Acq: 30 Sep 2015 14:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 30.1  | 21.7  | 32.5  |
| 279     | 8.4   | 3.0   | 4.6#  |





#85

Chrysene

Concen: 3.12 ng/ul

RT: 22.13 min Scan# 3238

Delta R.T. -0.00 min

Lab File: BM002784.D

Acq: 30 Sep 2015 14:29

Instrument :

BNA\_M

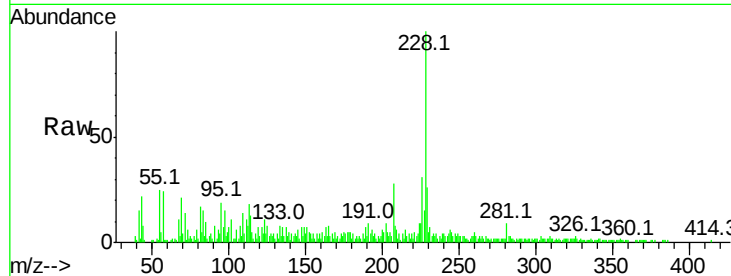
ClientSampleId :

E5MX3

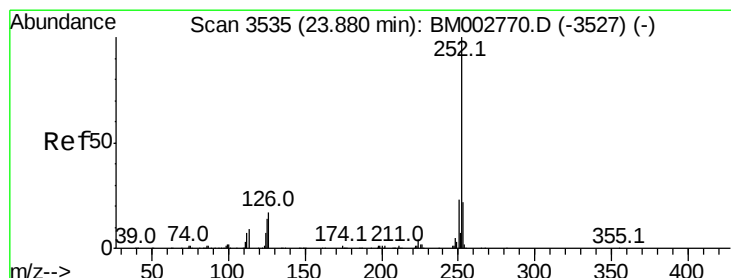
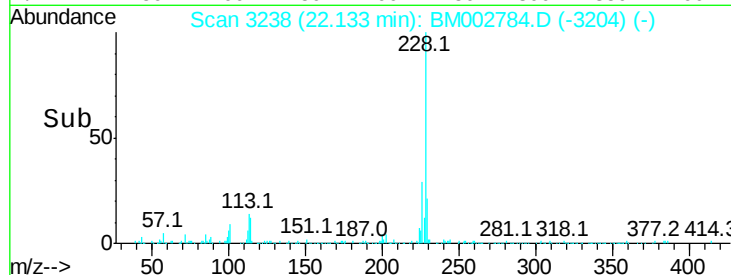
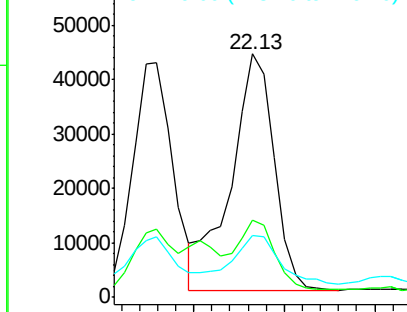
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 72356 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 31.5  | 22.4  | 33.6  |
| 229       | 25.6  | 15.4  | 23.2# |

Manual Integrations  
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9/30/2015 4:42:44 PM



Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E



#88

Benzo(b)fluoranthene

Concen: 3.25 ng/ul

RT: 23.89 min Scan# 3537

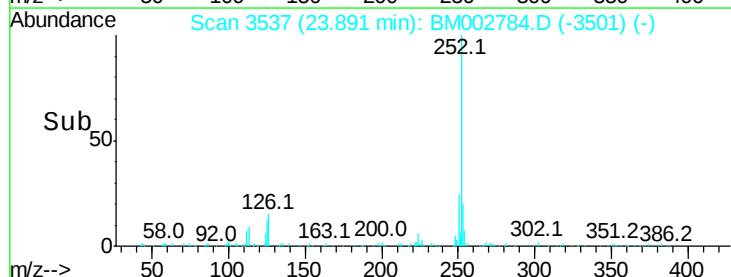
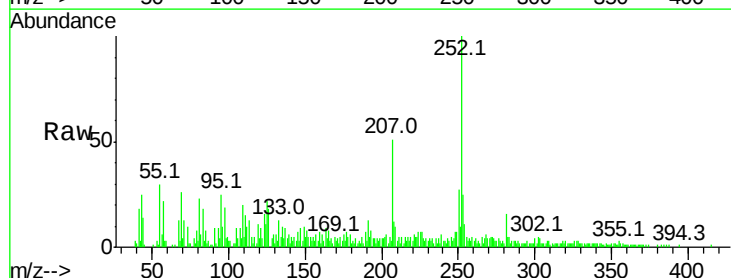
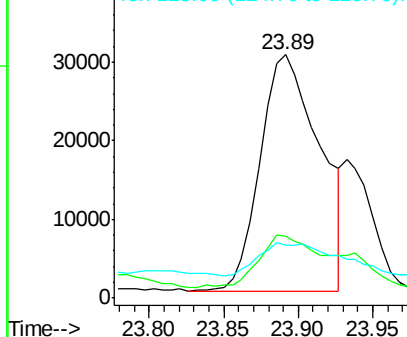
Delta R.T. 0.01 min

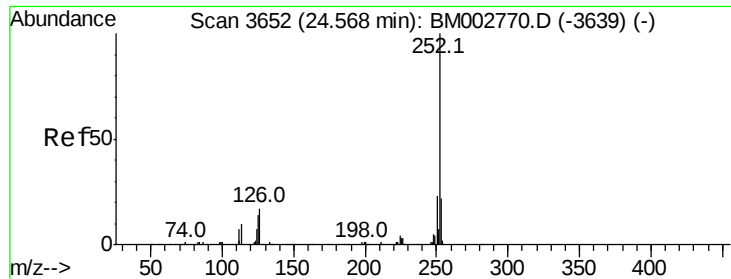
Lab File: BM002784.D

Acq: 30 Sep 2015 14:29

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 83380 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.2  | 17.6  | 26.4  |
| 125       | 21.7  | 10.6  | 15.8# |

Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





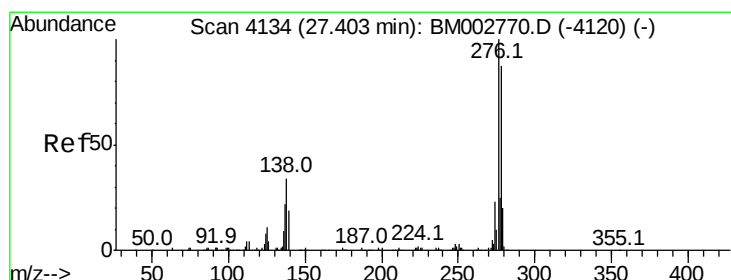
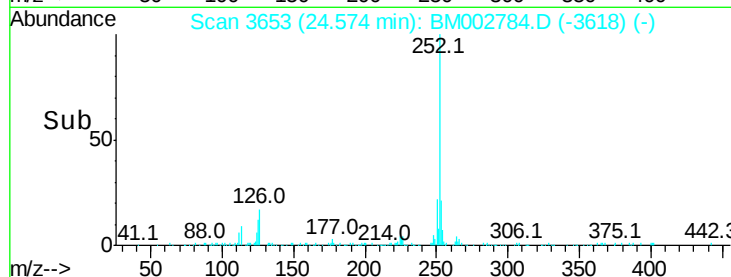
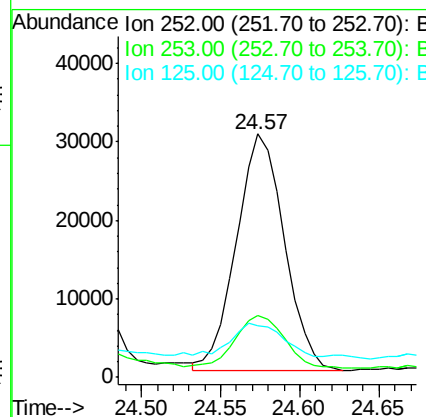
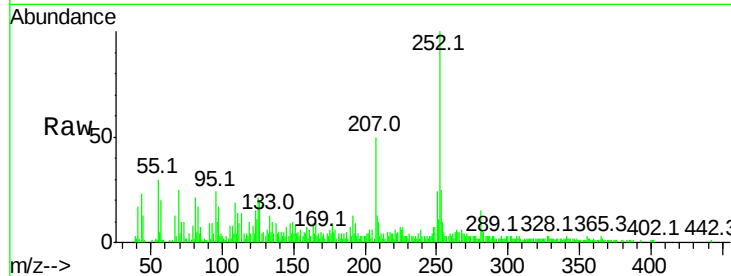
#91  
Benzo(a)pyrene  
Concen: 2.59 ng/ul  
RT: 24.57 min Scan# 3653  
Delta R.T. 0.01 min  
Lab File: BM002784.D  
Acq: 30 Sep 2015 14:29

Instrument :  
BNA\_M  
ClientSampleId :  
E5MX3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.3  | 17.4  | 26.0  |
| 125     | 21.2  | 11.4  | 17.2  |

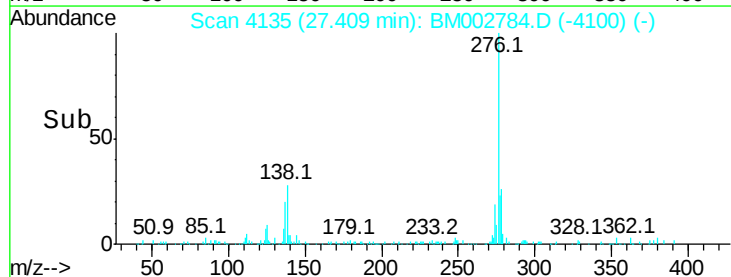
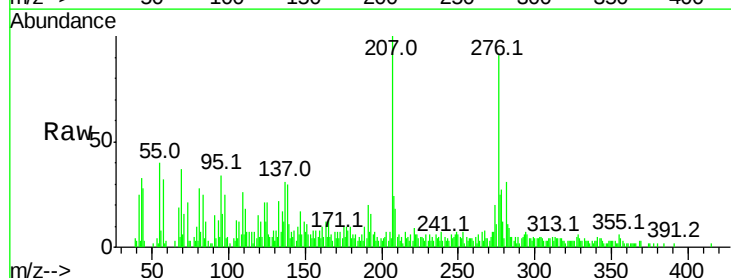
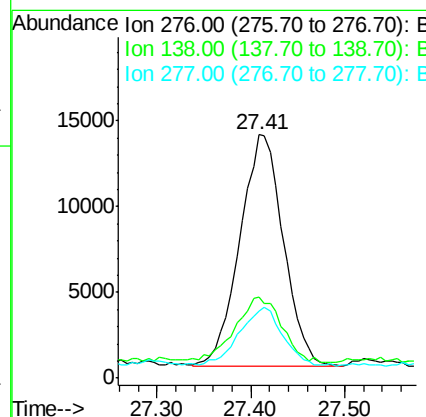
Manual Integrations  
APPROVED

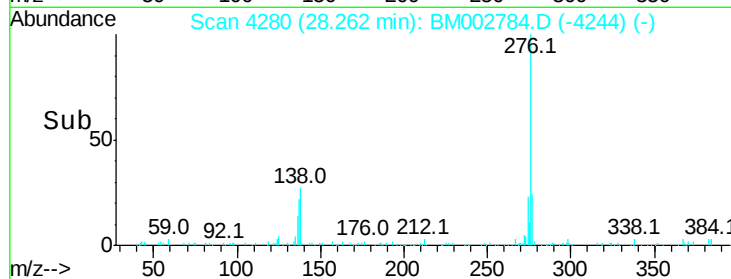
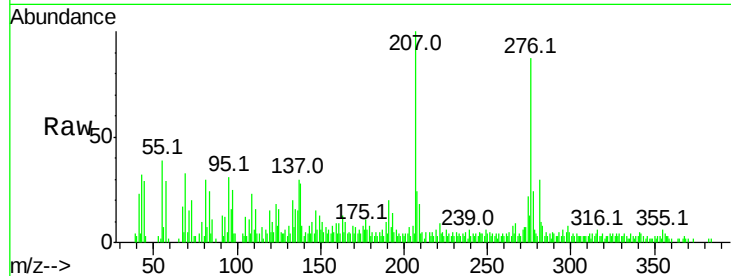
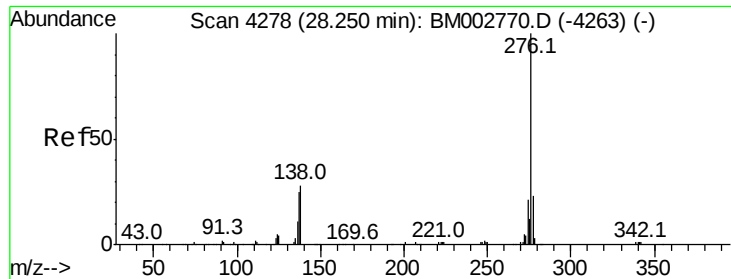
MMDadoda  
9/30/2015 4:42:44 PM



#92  
Indeno(1,2,3-cd)pyrene  
Concen: 1.52 ng/ul  
RT: 27.41 min Scan# 4135  
Delta R.T. 0.01 min  
Lab File: BM002784.D  
Acq: 30 Sep 2015 14:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 33.2  | 27.7  | 41.5  |
| 277     | 27.7  | 20.2  | 30.4  |





#94

Benzo(a,h,i)perylene

Concen: 2.04 ng/ul

RT: 28.26 min Scan# 4280

Delta R.T. 0.01 min

Lab File: BM002784.D

Acq: 30 Sep 2015 14:29

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 49282 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 32.0  | 21.8  | 32.8  |
| 277       | 28.0  | 18.9  | 28.3  |

Instrument :

BNA\_M

ClientSampleId :

E5MX3

Manual Integrations  
APPROVED

MMDadoda  
9/30/2015 4:42:44 PM

